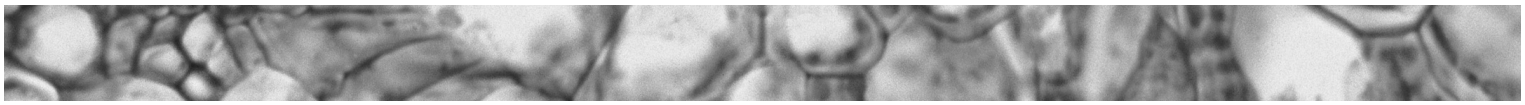


First U.S. Conference on

Characterizing Chemicals in Commerce:

Using Data on High Production Volume (HPV) Chemicals



December 12-14, 2006
Austin, Texas

Presented by the U.S. EPA Office of Pollution Prevention & Toxics and The Northeast Waste Management Officials' Association (NEWMOA)

TUESDAY, DECEMBER 12

8:00 - 9:00 REGISTRATION & CONTINENTAL BREAKFAST

9:00 - 9:20 WELCOME

Room - Town Lake Ballroom

- Carl Edlund, U.S. EPA Region 6
- David Schanbacher, Texas Commission on Environmental Quality (TCEQ)
- Gary Gulka, Vermont Department of Environmental Conservation, Representing NEWMOA

9:20 - 10:30 OPENING PLENARY & KEYNOTE ADDRESS

Room - Town Lake Ballroom

Plenary Chair: Charles M. Auer, U.S. EPA Office of Pollution Prevention & Toxics (OPPT)

- **Overview of EPA's Priorities for Chemical Management**
  James Gulliford, U.S. EPA Office of Prevention, Pesticides & Toxic Substances (OPPTS)
- **Understanding the Organization for Economic Cooperation & Development**
  Robert Visser, Environment Directorate, Organization for Economic Cooperation & Development (OECD)

10:30 - 10:45 BREAK & EXHIBITS

10:45 - 12:15 WHAT IS THE EPA HIGH PRODUCTION VOLUME (HPV) CHALLENGE PROGRAM?

Room - Town Lake Ballroom

Panel Chair: Jim Willis, U.S. EPA Office of Pollution Prevention & Toxics (OPPT)

The purpose of this session is to provide background on the elements of the HPV Challenge Program that are designed to collect and make publicly available basic screening level health and environmental effects data on approximately 2800 chemicals. In addition to the voluntary components of the HPV Program, the regulatory efforts will also be highlighted. Additional topics to be covered in the session are the development of the searchable

EPA/OPPT HPV Information System (HPVIS), an overview of the National Pollution Prevention and Toxics Advisory Committee (NPPTAC) recommendations to EPA on priority screening of HPV chemicals, and a preview of U.S. EPA Office of Pollution Prevention & Toxics' (OPPT) efforts to develop Hazard Characterization Profiles for HPV Chemicals.

Background on Voluntary & Regulatory Components of the HPV Program
Speaker: Diane Sheridan, U.S. EPA Office of Pollution Prevention & Toxics (OPPT)

Development of the High Production Volume Information System (HPVIS)
Speaker: Brion Cook, U.S. EPA Office of Pollution Prevention & Toxics (OPPT)

Report on the National Pollution Prevention & Toxics Advisory Committee (NPPTAC)
Speaker: Lorraine Twerdok, Health & Environmental Toxicology Consulting

EPA Prioritization Process & Development of Hazard Characterization Profiles for HPV Challenge Program Data
Speaker: Mark Townsend, U.S. EPA Office of Pollution Prevention & Toxics (OPPT)

12:15 - 1:30 LUNCH (ON YOUR OWN)

1:30 - 3:00 CONCURRENT SESSIONS 1

SESSION 1A INDUSTRY & GOVERNMENT USE OF HIGH PRODUCTION VOLUME CHEMICAL DATA

Room - Travis III

Panel Chair: Lorraine Twerdok, Health & Environmental Toxicology Consulting

- **Development & Use of High Production Volume Chemical Hazard & Exposure Data in a Global Consumer Products Company**
  Speaker: Scott Belanger, The Proctor & Gamble Company

  This presentation will summarize, in a practical way, how a major company develops, supplies, and uses HPV data in day-to-day decision making as well as in a chemical management strategy setting.

- **2006 Inventory Update Rule Reporting: Discussion & Solicitation of Ideas for Use in Conjunction with HPV Data**
  Speaker: Nhan Nguyen, U.S. EPA Office of Pollution Prevention & Toxics (OPPT)

  This presentation will begin with an introduction to the 2006 Inventory Update Reporting (IUR) data collection, focusing on specific data elements, the timetable for collecting the information, and any issues associated with making the data available. The purpose of this presentation is to solicit input on how this information can be made publicly available and ways the Agency can use the data.

- **Priority Ranking of High Production Volume (HPV) Chemicals Based on Production, Persistence, & Chemical Properties**
  Speaker: Jim Pankow, Oregon Health & Safety University

  This presentation will describe a research initiative to prioritize HPV chemicals for monitoring as environmental contaminants of concern in the years ahead. Since exploratory environmental monitoring of all such HPV compounds is not readily feasible at this time, the goal of this presentation is to describe the development of an approach by which chemicals on the HPV-2865 list can be ranked by expected environmental priority.

SESSION 1B ACCESSING & CONNECTING HPV CHEMICAL TOXICITY & ENVIRONMENTAL DATA: RESULTS OF RESEARCH PROJECTS

Room - Austin

Panel Chair: Heather Tenney, Massachusetts Toxic Use Reduction Institute
Brief introduction and description of the EPA/NEWMOA research grants selection process and objectives.

- **Research Project: Integration of Relevant HPVIS Data into CleanGredients**
  Speakers: Christopher Buck & Lauren Heine, GreenBlue Institute

  This presentation will present the results of the GreenBlue Institute's research on integrating HPVIS data into CleanGredients to help formulators of cleaning products to identify and select greener ingredients. CleanGredients is an online information platform designed to help formulators to create industrial and institutional cleaning products that are safe and healthy for humans and the environment.

- **Research Project: Using HPVIS & Other Sources of Data to Identify Persistent, Bioaccumulative, & Toxic Chemicals**
  Speaker: Kristan Markey, Environmental Working Group

  This presentation will present the results of the Environmental Working Group's (EWG) research on using the HPVIS to identify persistent, bioaccumulative, and toxic (PBT) chemicals. This is part of a larger initiative by EWG to develop a comprehensive inventory of emerging PBT pollutants.

SESSION 1C — USING THE HIGH PRODUCTION VOLUME INFORMATION SYSTEM (HPVIS) – INTERACTIVE TRAINING

Room - Old Pecan Street

Trainers: Brion Cook, U.S. EPA Office of Pollution Prevention & Toxics (OPPT) & John Gilchrist, Science Applications International Corporation (SAIC)

SESSION 1D — HOW CAN THE MEDIA APPROPRIATELY USE HPVIS & PRESENT AVAILABLE DATA?

Room - Travis I & II

Panel Chair: Janice Adair, Washington Department of Ecology

- **Who Is Your Audience & What is the Purpose of Your Message?**
  Speaker: Alvin Chun, U.S. EPA Office of Research & Development (ORD)

  This presentation will focus on the need to have a good handle on what you want your communication strategies to accomplish and how understanding your audience's interest is important. This presentation will include examples and stories to illustrate these points.

- **Perspectives of Journalists – Interactive Panel**
  Panelists: Cheryl Hogue, *Chemical & Engineering News*
  Pat Rizzuto, *Chemical Regulation Reporter*, BNA Inc.
  Elizabeth Grossman, Freelance Journalist
  Larry Pearl, *Pesticide & Toxic Chemical News*

3:00 - 3:30 BREAK & EXHIBITS

3:30 - 5:00 CONCURRENT SESSIONS 2

SESSION 2A — PERSPECTIVES ON HAZARD, EXPOSURE, & RISK CHARACTERIZATION

Room - Travis I & II

Panel Chair: Scott Everett, Utah Department of Environmental Quality

- **Translating HPV Information into Plain Language**
  Speaker: Jim Cooper, Synthetic Organic Chemical Manufacturers' Association (SOCMA)

  This presentation will present an overview of the fundamentals of hazard, exposure, and risk (which are critical for understanding chemical information) and outline how and why they are used in a tiered approach. It will also describe ways that HPV chemical information can be used with other publicly available information to yield a better understanding of how and why chemicals are used in society, and how to make informed risk decisions.

- **Hazard & Exposure Screening Methods for HPV Categories: Amine Oxides a Case Study**
  Speaker: Hans Sanderson, The Soap & Detergent Association

  This presentation will include exposure information and screening methods that can be of value in putting HPV chemicals hazard data into a risk perspective and thereby facilitate prioritization of chemicals for further risk evaluation.

- **Strategies to Reduce Animal Testing in U.S. EPA's HPV Program**
  Speaker: Chad Sandusky, Physicians Committee for Responsible Medicine

  This presentation will provide specific examples of ways to reduce animal testing and better focus resources to meet regulatory needs, both for HPV and other current and future testing initiatives.

SESSION 2B USING HPVIS: RESULTS OF RESEARCH PROJECTS

Room - Austin

Panel Chair: Cathy Crumbley, Lowell Center for Sustainable Production
Brief introduction and description of the EPA/NEWMOA research grants selection process and objectives.

- **Research Project: Using HPVIS to Address Community Health Concerns**
  Speakers: James Blando & David Valiante, New Jersey Department of Health & Senior Services

  This presentation will present the results of the New Jersey Department of Health and Senior Services research on utilizing HPVIS to address specific community health concerns from a state and local government perspective. The research project focused on developing a metric for use with the HPVIS to select chemicals of particular concern for additional survey and follow-up among New Jersey industries.

- **Research Project: Use of HPVIS to Identify Chemicals that May Pose a Threat to the Great Lakes Fishery**
  Speaker: Lynda Knobeloch, Wisconsin Department of Health & Family Services

  This presentation will describe the results of the Wisconsin Department of Health and Family Services assessment of the High Production Volume Information System as a tool that can be used to identify chemicals in commerce that may pose a threat to an aquatic ecosystem. The researchers chose to focus their research on the Great Lake Fishery as an example of an ecosystem that is known to be vulnerable to persistent, bioaccumulative substances.

SESSION 2C USING THE HIGH PRODUCTION VOLUME INFORMATION SYSTEM (HPVIS) – INTERACTIVE TRAINING

Room - Old Pecan Street

Trainers: Brion Cook, U.S. EPA Office of Pollution Prevention & Toxics (OPPT) & John Gilchrist, Science Applications International Corporation (SAIC)

SESSION 2D STATES' HPV CHEMICAL & POLLUTION PREVENTION PERSPECTIVES & ACTIONS

Room - Travis III

Panel Chair: Ken Zarker, Washington Department of Ecology

This session will focus on innovative approaches states are undertaking to address HPV chemicals through pollution prevention. States are examining the available chemicals data, chemicals use, and potential environmental and health impacts of using alternative chemicals. With this information these leading states are piloting approaches that could be transferred and adopted by other states.

- **California's Approach to HPV Chemicals**
  Speaker: Bruce Jennings, California Senate Committee on Environmental Quality

  This presentation will provide an overview of how states can use HPVIS data to help develop risk-based strategies for sustainable chemicals management.

- **Governor's Task Force on Safer Chemicals in Consumer Products**
  Speaker: Ginger Jordan Hillier, Maine Department of Environmental Protection

  This presentation will describe a number of HPV chemicals, including lead and perchloroethylene that are addressed in Maine's efforts to implement an Executive Order Promoting Safer Chemicals in Consumer Products and Services. State efforts to lead by example include multiple environmentally preferable purchasing efforts and integrated pest management.

- **Washington State's Chemical Action Plans**
  Speakers: Janice Adair, Washington Department of Ecology & Rob Duff, Washington Department of Health

  This presentation will report on an innovative state collaboration between the Department of Health and Department of Ecology to use risk screening tools like HPVIS to support the development of Washington State's Chemical Action Plans, including the new multi-year schedule to address lead.

5:00 - 7:00 **RECEPTION**

Room - Hotel Mezzanine

SPONSORED BY:

- **THE AMERICAN CHEMISTRY COUNCIL (ACC)**
- **THE AMERICAN PETROLEUM INSTITUTE (API)**
- **THE SYNTHETIC ORGANIC CHEMICAL MANUFACTURERS' ASSOCIATION (SOCMA)**

WEDNESDAY, DECEMBER 13

8:00 - 9:00 REGISTRATION & CONTINENTAL BREAKFAST

9:00 - 10:30 PLENARY SESSION – FUTURE DIRECTIONS OF THE HPV CHALLENGE PROGRAM

Room - Town Lake Ballroom

Key HPV Challenge Program leaders will present their views on the success of the Program & define their vision for its future directions.

Panel Chair: Charles M. Auer, U.S. EPA Office of Pollution Prevention & Toxics (OPPT)

Speakers:

- Steven Russell, American Chemistry Council
- Richard Denison, Environmental Defense
- Jim Willis, U.S. EPA Office of Pollution Prevention & Toxics

10:30 - 10:45 BREAK & EXHIBITS

10:45 - 12:15 CONCURRENT SESSIONS 3

SESSION 3A HPV CHEMICALS CATEGORIZATION & SCREENING

Room - Travis I & II

Panel Chair: Christina Franz, American Chemistry Council (ACC)

- **Discussion of the Examples from EPA's HPVIS Database to Illustrate Formation of Chemical Categories & Use in Chemical Hazard Assessment**
  Speaker: Sandra Reiss Murphy, Arkema Inc.

  This presentation will describe and illustrate how "Read Across" produces useful information while conserving animal and human resources.

- **Identifying Tools to Rapidly Characterize & Prioritize Chemicals in Commerce for Prevention**
  Speaker: Joel Tickner, University of Massachusetts Lowell

  This presentation will outline a potential framework for prioritizing high production volume chemicals that could be applied to lower volume ones.

- **Petroleum Substances: Special Considerations for Interpreting HPV Data**
  Speaker: Thomas Gray, American Petroleum Institute (API)

  The presentation will review the approaches used by API to develop and test category hypotheses for petroleum HPV substances and why the Class II status of petroleum substances must be recognized when interpreting the data. The vast majority of the 400+ petroleum HPV substances are Class II substances on the U.S. Toxic Substances Control Act (TSCA) Chemical Inventory. Interpretation of HPV data on petroleum substances requires an understanding of their complexity and variability.

SESSION 3B USING THE HIGH PRODUCTION VOLUME INFORMATION SYSTEM (HPVIS) – INTERACTIVE TRAINING

Room - Old Pecan Street

Trainer: John Gilchrist, Science Applications International Corporation (SAIC)

SESSION 3C HPV CHEMICAL DATA – INFORMING HEALTH & ENVIRONMENTAL IMPROVEMENT

Room - Austin

Panel Chair: Bob Kerr, Pure Strategies

This session will provide an open dialogue with the panel and audience on chemicals data use opportunities for pollution prevention and health improvement. The panelists will provide their organization's perspectives regarding: how the HPVIS data is or could be used for

chemical assessment, investigation of alternatives, priority setting to make sound business and public health decisions, and additional data needs and sources for pollution prevention efforts.

During the presentations the panelists will focus on the following questions:

1. How do you use information on chemicals in your work? How useful is the information in the HPVIS in accomplishing this work?
2. Are there other important potential uses of HPV chemical data? If so, how does the information in the HPVIS support those other potential uses?
3. For each use, how applicable is the HPVIS dataset and how could it be improved to be more useful?
4. How do you see the HPVIS dataset and database fitting with other data sources of information on chemicals?

Panalists:

- **Lara Sutherland, Environmentally Preferable Purchasing, Health Care Without Harm**

  This presentation will address the advantages and limitations to publicly available HPV chemical data for institutional purchasers interested in avoiding toxic and untested chemicals in products and will include examples.

- **Connie Hensler, Interface Research & Development, InterfaceFLOR**

  This presentation will describe the goals set by Interface for achieving environmental sustainability that have changed the way they make products and what they use to make them. Developing a chemical screening protocol that insures that the company makes good choices but does not slow the process of innovation has been their challenge.

- **Michael P. Wilson, Ph.D, MPH, Center for Occupational & Environmental Health, School of Public Health, University of California, Berkeley**

  This presentation will discuss the potential uses of HPVIS in setting priorities for public health and economic planning in U.S. states.

- **Terry Wells, Clariant Corporation, North Carolina**

  This presentation will discuss how small- and medium-sized companies on constrained budgets use HPV data, in context with other information, to augment their product stewardship and pollution prevention activities.

- **Darius D. Sivin, Ph.D, United Auto Workers (UAW) International Union**

  This presentation will discuss the potential uses of the HPVIS data for setting occupational exposure limits.

- **Rita Schenck, The Institute for Environmental Research & Education**

  This presentation will discuss the applicability of the HPV dataset to life cycle assessment.

12:15 - 1:30 **LUNCH (ON YOUR OWN)**

1:30 - 3:00 CONCURRENT SESSIONS 4

SESSION 4A HPV CHEMICAL SCREENING MODELS

Room - Travis I & II

Panel Chair: Nancy Kim, New York State Department of Health

- **Use of HPV Challenge Data & the EPI Suite™ Model**
  Speaker: Laurence Libelo, U.S. EPA Office of Pollution Prevention & Toxics (OPPT)

  This presentation will summarize how OPPT uses the HPV Challenge data and the EPI Suite™ model for screening level assessments. The EPI Suite model can be used to estimate basic physical chemical properties and environmental fate and transport, where data is not available. Measured data (such as HPV Challenge data) can be used within EPI Suite™ to predict properties, and where sufficient data of appropriate quality exists, can be used to develop, update, and evaluate models.

- **PBT Profiler Use in Industry to Screen HPV Chemicals**
  Speaker: John Weeks, SC Johnson & Son, Inc.

  This presentation will describe the use of the PBT Profiler to estimate the PBT characteristics for each raw material that SC Johnson currently uses as well as for those that are being considered for future use. The PBT Profiler provides an early assessment of a material's potential environmental impact, allowing SC Johnson to make more informed decisions and choices about materials in their products. This presentation will describe the challenges and opportunities that SC Johnson identified in their case study project for using the PBT Profiler to help screen HPV and other chemicals of interest.

- **Ecological Structure Activity Relationship (ECOSAR) Model for Predicting Toxicity**
  Speaker: Elizabeth Becker, Consortium for Environmental Risk Management

  This presentation will describe the uses of the ECOSAR model, a powerful screening level tool to assess potential aquatic toxicity. ECOSAR may be accessed as a part of EpiSuite™ or run independently. The ECOSAR structure activity relationship model is based on data that EPA has access to, including HPV and Pre-Manufacture Notification (PMN) submission data. HPV data are used to enhance and extend the ECOSAR model. ECOSAR may also be used to compare to HPV data, and to complete a toxicity profile within a dossier where data for fish, algae, or daphnia may be incomplete or missing.

SESSION 4B TOOLS FOR DATA SHARING & PRIORITZING HPV CHEMICALS

Room - Travis III

Panel Chair: Michael Belliveau, Environmental Health Strategy Center

- **International Harmonization Efforts on Petroleum Substances**
  Speaker: Thomas Gray, American Petroleum Institute (API)

  This presentation will describe the category approach that is used by the Petroleum HPV Testing Group to help organize petroleum substances in the U.S. EPA's High Production Volume (HPV) Chemical Challenge and will describe Registration, Evaluation, & Authorization of Chemicals (REACH) requirements and the efforts of European Union (EU) and U.S. companies to share data and use substance categories to meet common goals. It will review the API and CONCAWE efforts to meet REACH requirements for data sharing and the value of categories to determine appropriate hazard classification, labeling, and Material Safety Data Sheet (MSDS) preparation for petroleum substances.

- **Sharing Data on HPV Chemicals**
  Speaker: E. Weeg-Aerssens, BBL Sciences/An Arcadis Company

  This presentation will describe ToxCore, a data repository that is a resource for toxicologists and risk assessors developed by a team of scientists.

- **EPA Prioritization Process & Development of Hazard Characterization Profiles for HPV Challenge Program Data**
  Speaker: Meena Sonawane, U.S. EPA Office of Pollution Prevention & Toxics (OPPT)

  This presentation will describe EPA's efforts to implement its priority screening process and share draft profiles developed for chemicals that are undergoing the Tier II review process. The purpose of this presentation is to solicit input from conference participants on EPA's preliminary efforts. The draft profiles are available at http://www.newmoa.org/hpv.

SESSION 4C **USING THE HIGH PRODUCTION VOLUME INFORMATION SYSTEM (HPVIS) – INTERACTIVE TRAINING**

Room - Old Pecan Street

Trainer: John Gilchrist, Science Applications International Corporation (SAIC)

SESSION 4D **HPV CHEMICAL INITIATIVES IN NORTH AMERICA, MEXICO, & JAPAN**

Room - Austin

Panel Chair: Dianne Dugas, Louisiana Department of Health & Hospitals

- **Japan's High Production Volume Chemicals Program**
  Speaker: Hideaki Tanaka, Japan Ministry of Economy, Trade, & Industry

  This presentation will describe the outline of Japan's HPV Challenge Program that was launched last year. This program is a voluntary program. Both the government sector and the industry sector are involved in order to collect chemical data on Japanese HPV chemicals like the U.S. HPV Challenge Program.

- **HPV Chemical Initiatives in Mexico**
  Speaker: Ernesto Navarro Reynoso, Environment & Natural Resources Secretariat, Mexico

  This presentation will describe important high production volume chemical activities and approaches in Mexico. The chemical industry in Mexico is involved with producing HPV chemicals for use by the agricultural industry, textile industry, food industry, and water treatment.

- **Report on North American Safer Management of Chemicals (SMOC)**
  Speaker: Luke Trip, Commission on Environmental Cooperation (CEC)

  This presentation will describe the directions being proposed for the new sound management of chemicals agenda in North America and consideration of the HPV chemicals sector as an area of focused attention to help promote compliance with environmental agendas both regionally and globally.

3:00 - 3:30 **BREAK & EXHIBITS**

3:30 - 5:00 **CONCURRENT SESSIONS 5**

SESSION 5A **DEFINING & DESIGNING GREEN PRODUCTS USING HPV DATA**

Room - Austin

Panel Chair: Jeff Burke, National Pollution Prevention Roundtable (NPPR)

- **Using HPV Data in Green Procurement**
  Speaker: Jim Darr, U.S. EPA Office of Pollution Prevention & Toxics (OPPT)

  This presentation will describe how the procurement community has a strong interest in incorporating chemical hazard and risk criteria in procurement policies and practices. The HPV Program provides an important new data source that has yet to be exploited in this area.

- **Five Chemicals Alternatives Assessment Study**
  Speaker: Liz Harriman, Massachusetts Toxics Use Reduction Institute

  The presentation will discuss ways that the HPV Information System could address some of the issues that were identified in a recent study conducted by The Toxics Use Reduction Institute for the Massachusetts legislature to investigate the availability of safer alternatives for five substances: lead, perchloroethylene, formaldehyde, DEHP, and hexavalent chromium. In order to compare these substances with alternatives, environmental, health and safety data was gathered for more than 100 alternatives. Challenges included: which data sources to use, which information was up-to-date, how to address data gaps, and how to assess mixtures. The need for a consistent, current, reliable, and publicly available data set is crucial.

- **Design for the Environment – What the Decisions Are Based On**
  Speaker: Clive Davies, U.S. EPA Office of Pollution Prevention & Toxics (OPPT)

  This presentation will describe how the EPA Design for the Environment (DfE) Program works in partnership with a broad range of stakeholders, including chemical manufacturers, product formulators, and environmentalists, to reduce risk to people and the environment. DfE convenes partners, including industry representatives and environmental groups, to develop goals and guide the work of each partnership. Partnerships evaluate the human health and environmental considerations, performance, and cost of traditional and alternative technologies, materials, and processes.

SESSION 5B USES & APPLICATIONS OF HPVIS DATA

Room - Travis III

Panel Chair: Christina Thompson, U.S. EPA Office of Pollution Prevention & Toxics (OPPT)

- **Industrial Hygiene Applications for HPVIS Data**
  Speaker: John Mikan, Experien Health Science

  This presentation will focus on several examples of how HPV data was used by a practicing industrial hygienist to more-fully and more-accurately characterize human health risks in the workplace.

- **Current & Anticipated Uses of HPV Challenge Data**
  Speaker: Nhan Nguyen, U.S. EPA Office of Pollution Prevention & Toxics (OPPT)

  This presentation will highlight some of the current uses and anticipated uses of the HPV data in OPPT. Data on HPV chemicals, including data from the HPV Challenge Program and Inventory Update Reporting (IUR) are used to develop and enhance models, verify/validate models, prioritize and screen chemicals, predict hazard, develop estimates of exposures and releases, develop chemical categories, and identify potential greener substitute chemicals.

SESSION 5C USING DATA ON HIGH PRODUCTION VOLUME CHEMICAL RELEASES & TRANSFERS

Room - Travis I & II

Panel Chair: Seth Dibblee, U.S. EPA Region 5

- **The Toxics Release Inventory Display System (TRIDS): A Graphical Tool to Display HPV Chemical Data**
  Speaker: Idell Hansen, Washington Department of Ecology

This presentation will describe a project by the Washington State Department of Ecology called the Toxics Release Inventory Display System (TRIDS), which is designed to enable the user to find health and environmental hazard information by selecting the chemical name on the display. TRIDS allows the presentation of Toxics Release Inventory (TRI) data by facility and chemical in a format that is easy to use. TRIDS provides an example of how environmental data can be linked to the chemical data like the HPV data. The TRIDS application has been funded by State and Federal funding, including a grant from the U.S. Environmental Protection Agency. TRIDS is distributed free-of-change and provides a way to generate interest in environmental data and relate it to the local community. It can serve as a model of what can be done to make the information available in a user friendly format.

- **Using Pollutant Release & Transfer Registers (PRTR) for Information & Priority-Setting for Industrial Releases of HPV Chemicals**
  Speaker: Keith Chanon, Commission on Environmental Cooperation (CEC)

  This presentation will provide an overview of the CEC's PRTR activities and explore the use of PRTRs as a tool to track industrial releases of HPVs in North America. It will also explore how PRTR data can be used for priority-setting in pollution prevention efforts and opportunities for collaboration on a regional basis.

- **Complementary Sources of Information for Understanding Chemical Life Cycle**
  Speaker: Paul Richard, Massachusetts Office of Technical Assistance for Toxics Use Reduction

  This presentation will describe the Toxics Use Reduction database in Massachusetts that provides data on what happens to chemicals in a wider array of applications. This database contains materials balance information for many varieties of large quantity users of toxic chemicals, including high production volume chemicals. The data consists of how much chemical went into operations and how much came out as product or non-product. This presentation will provide examples of ways to use both HPV chemical data along with the state toxics use reduction data to provide a more complete understanding of chemical uses and impacts in particular locations.

8:00 - 9:00 REGISTRATION & CONTINENTAL BREAKFAST

9:00 - 10:30 CONCURRENT SESSIONS 6

SESSION 6A

USING HPV CHEMICALS & OTHER DATA TO SUPPORT GREEN CHEMISTRY & DESIGN FOR ENVIRONMENT: EFFORTS OF THE GREEN CHEMISTRY IN COMMERCE COUNCIL

Room - Austin

Panel Chair: Joel Tickner, University of Massachusetts Lowell

This session will present the efforts of a diverse group of corporate leaders in sustainable design and the challenges and opportunities they face with regards to chemicals data. The speakers will describe the experiences of firms that have moved forward on their own to characterize the toxicity of their products in an attempt to design safer products. Panelists will discuss lessons learned and ways in which new data from the HPV Challenge can be used to support prevention and inform substitution as companies move toward safer product design.

- **Tools for HPV Chemical Assessment & Safer Design**
  Speaker: Dave Long, SC Johnson & Son, Inc.

  This presentation will describe the efforts of the Green Chemistry in Commerce Council (GC3) to develop a database describing the various tools and databases that researchers can use to find environmental and health and safety data for HPV chemicals, as well as compare alternatives and safer design options. This database includes both public and fee-for-service databases. The list of tools includes a URL location, summary of the application, and limitations of the tool. This database is viewed as the first part of an effort to build a tool for industry to conduct rapid and transparent hazard assessments of chemicals, incorporating the range of data that are available, including data from the HPV Challenge.

- **Advancing Design for the Environment & Green Chemistry in Government**
  Speaker: Richard Cottrell, Sysco

  This presentation will describe the value that the GC3 sees in EPA and other agency programs for stimulating safer chemicals and products. In implementing the New Chemicals Program under the Toxic Substances Control Act, the EPA has developed tools to understand any hazard and exposure concerns associated with newly developed chemicals, for which little information is typically available. The GC3 believes that Design for the Environment (DfE) and Green Chemistry are unique in adding value to industry product stewardship programs. Based on the value of these programs, industry, environmental groups, and others, should participate in them and the government should nurture them.

- **Drivers for Innovation & Marketing Safer Products**
  Speaker: Yve Torrie, Lowell Center for Sustainable Production, University of Massachusetts Lowell

  This presentation will describe the results of nine interviews with a range of stakeholders from within the Green Chemistry in Commerce Council. The findings from these interviews – the drivers and obstacles for marketing more sustainable products, informing substitution with safer chemicals, and greening the supply chain – will be presented and discussed. In particular, the presentation will focus on toxicity data needs for firms in designing and implementing safer chemistry and the applicability of the HPV database in fulfilling this need.

SESSION 6B

HIGH PRODUCTION VOLUME CHALLENGE & POLLUTION PREVENTION CONNECTION

Room - Travis III

Panel Chair: Scott Butner, Battelle

- **Toxicity Data & Pollution Prevention**
  Speaker: Kirsten Sinclair Rosselot, Process Profiles

  This presentation will discuss qualitative screening-level schemes that factor in a measure of the quantity of a chemical released or used, its toxicity, and perhaps some exposure factors and that are useful tools for pollution prevention efforts. As an example of such a scheme, a web-mounted tool designed to help guide consumers in their pesticide and cleanser choices will be demonstrated. Along with providing purchasing guidance, this tool is meant to educate consumers about the extent to which toxicity varies from one chemical to another and how product usage patterns relate to potential exposure. This presentation will also describe how HPVIS data may or may not resolve issues of missing toxicity data for ingredients in retail pesticides and cleansers.

- **High Production Volume Chemical Arena—Understanding the Pollution Prevention Implications**
  Speaker: Michael Overcash, North Carolina State University

  This presentation will examine the effects of pollution prevention (P2) on larger environmental systems. The presenter has examined a range of HPV chemicals to identify examples of cradle-to-grave improvement that can occur for a 1,000 kilogram P2 result. He will discuss the analogous life cycle benefits when 1,000 kg of HPV chemicals are recovered and reused. This presentation will address the life cycle data that might eventually become part of the HPVIS. Such information would inform the P2 community by helping them to understand the full impact and the hidden benefits of P2 success with HPV chemicals.

- **HPVIS & The "Architecture of Participation"**
  Speaker: Scott Butner, Battelle

  The term "Architecture of Participation" was coined in 2003 by Tim O'Reilly as a fundamental underpinning of the so-called "Web 2.0" phenomena. It refers to an approach to information management that focuses on information systems in which the users themselves play a key role in contributing to the value of the data and/or stored in the system. This presentation will provide a speculative look at how these technologies can be applied to the HPVIS to facilitate more (and more innovative) applications of the data by groups outside of the EPA. Some simple demos of the selected concepts will be presented.

SESSION 6C EXISTING SUBSTANCES PROGRAM: A CANADIAN PERSPECTIVE

Room - Travis I & II

Panel Chair: Bette Meek, Health Canada

This panel will describe the results of the efforts of the Government of Canada to "categorize" all of the chemicals on the Domestic Substances List by September 2006 to see whether they possessed certain characteristics that may indicate whether they pose a risk to the environment or human health. Those characteristics are human exposure, persistence, bioaccumulation, and inherent toxicity. Through this initiative the Government of Canada has collected a significant amount of data and developed robust scientific tools that will assist in future chemical assessments and risk management decisions. A risk-based framework has been developed that permits consideration from a human health perspective of any substance proposed for action.

- **Categorization Results from a Human Health Perspective**
  Speaker: Robert Liteplo, Health Canada

  This presentation will describe how Canada has identified substances that have the greatest potential for exposure of Canadians and are inherently toxic to humans through

the Categorization exercise. It focuses on what chemical substances can potentially affect human health as well as distributing these substances in a priority sequence so the Government of Canada can first deal with those suspected of presenting the highest hazard and greatest potential for exposure.

- **Categorization Results from an Ecological Perspective**
  Speaker: Nicole Davidson, Environment Canada

  This presentation will describe Canada's efforts to identify the persistence, bioaccumulation, and aquatic toxicity potential for all of the substances on its Domestic Substances List (Categorization Program). Successes and challenges with obtaining good quality data will be highlighted.

- **Linking with Other International Activities**
  Speaker: Jake Sanderson, Environment Canada

  This presentation will focus on a how Canada plans to utilize or contribute with regards to the various international HPV programs that have been designed to help share the burden in the investigation of existing chemicals concentrating on the many HPV chemicals in commerce.

10:30 - 10:45 BREAK & EXHIBITS

10:45 - 12:15 CLOSING PLENARY

Room - Town Lake Ballroom

Panel Chair: Terri Goldberg, Northeast Waste Management Officials' Association (NEWMOA)

REFLECTIONS ON THE "CHARACTERIZING CHEMICALS IN COMMERCE" CONFERENCE & WRAP-UP

Speakers:

- Charles M. Auer, U.S. EPA Office of Pollution Prevention & Toxics (OPPT)
- Ken Geiser, University of Massachusetts Lowell
- Steven Russell, American Chemistry Council (ACC)